

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
30 June 2005 (30.06.2005)

PCT

(10) International Publication Number
WO 2005/060272 A1

(51) International Patent Classification⁷: **H04N 17/00**,
1/409, 7/30, G06K 9/52, G06T 7/40

(21) International Application Number:
PCT/SG2004/000412

(22) International Filing Date:
15 December 2004 (15.12.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
200307620-5 16 December 2003 (16.12.2003) SG

(71) Applicant (for all designated States except US): **AGENCY FOR SCIENCE, TECHNOLOGY AND RESEARCH** [SG/SG]; 20 Biopolis Way, #07-01 Centros, Singapore 138668 (SG).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **ONG, Ee Ping** [SG/SG]; 21 Heng Mui Keng Terrace, Singapore 119613 (SG). **LIN, Weisi** [SG/SG]; Blk 210, Bukit Batok #10-212, Singapore 650210 (SG). **LU, Zhongkang** [CN/SG]; 21 Heng Mui Keng Terrace, Singapore 119613 (SG). **YAO, Susu** [CN/SG]; 21 Heng Mui Keng Terrace, Singapore 119613 (SG). **YANG, Xiaokang** [CN/SG]; 21 Heng Mui Keng Terrace, Singapore 119613 (SG).

(74) Agent: **ELLA CHEONG SPRUSON & FERGUSON (SINGAPORE) PTE LTD**; P.O. Box 1531, Robinson Road Post Office, Singapore 903031 (SG).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

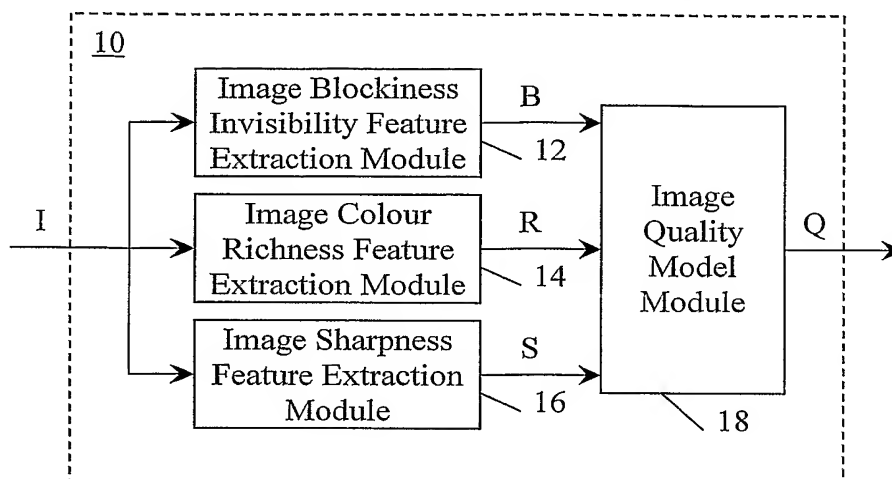
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

[Continued on next page]

(54) Title: IMAGE AND VIDEO QUALITY MEASUREMENT



(57) Abstract: An image quality measurement system (10) determines various features of an image that relate to the quality of the image in terms of its appearance. The features include the image's blockiness invisibility (B), the image's colour richness (R) and the image's sharpness (S). These are all obtained without the use of a reference image. The determined features are combined to provide an image quality measure (Q).

WO 2005/060272 A1



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.